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Abstract of JP11065430

SOLUTION: The device is equipped with a map data base 43 consisting of maps having scale levels at, for example, double-scale intervals, an expanding process means 40 which has two map drawing areas 44A and 44B, i.e., an area where a display map is drawn and an area where a preread map is drawn on a memory 44 and expands image data when transferring the display map to a VRAM, an expansion rate calculating means 49 which determines the expansion rate of the image data, a scale level judging means 46 which judges the scale level of a map (preread map) considered to be needed next as a display map from the direction of zooming (continuous enlargement or reduction), a map dividing and drawing means 47 which divides the preread map into rectangular areas and draws them, and a display map switching means 48 which judges which of the two map drawing areas the map to be displayed is drawn in and takes image information of the map out.

